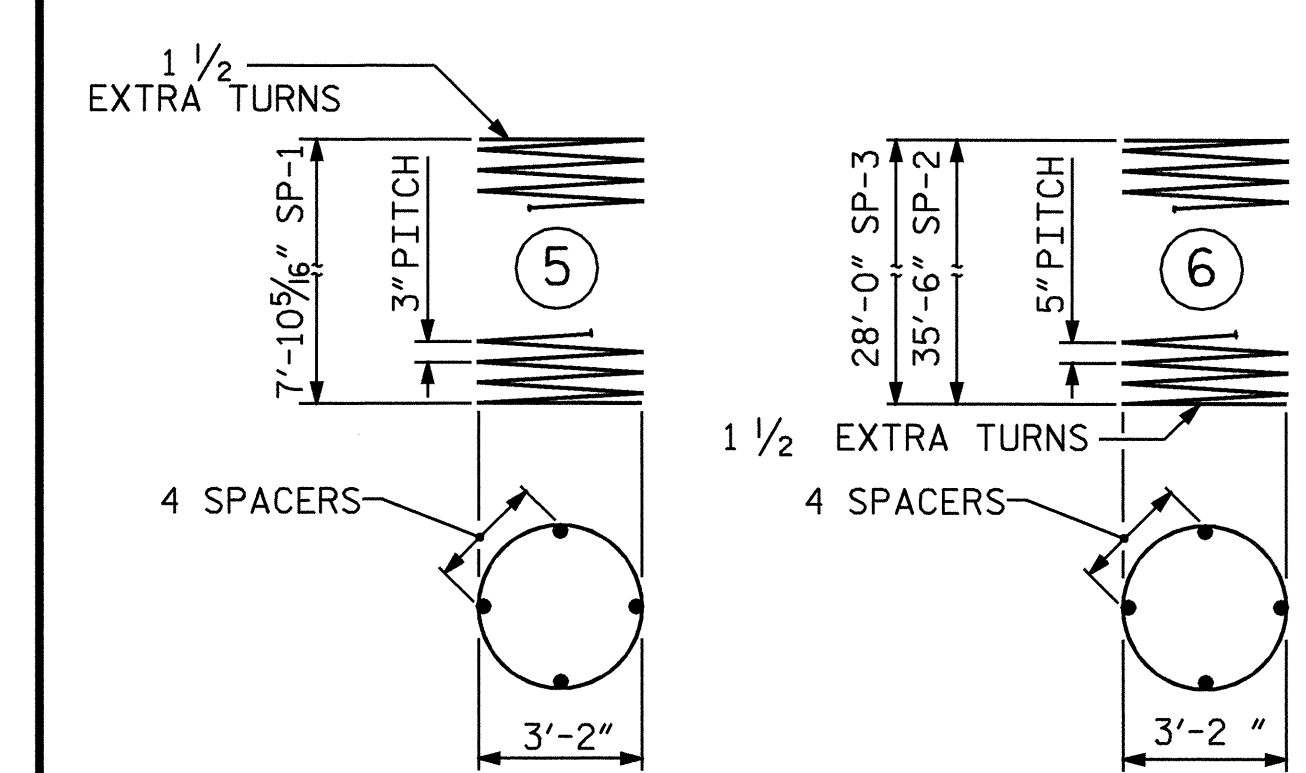


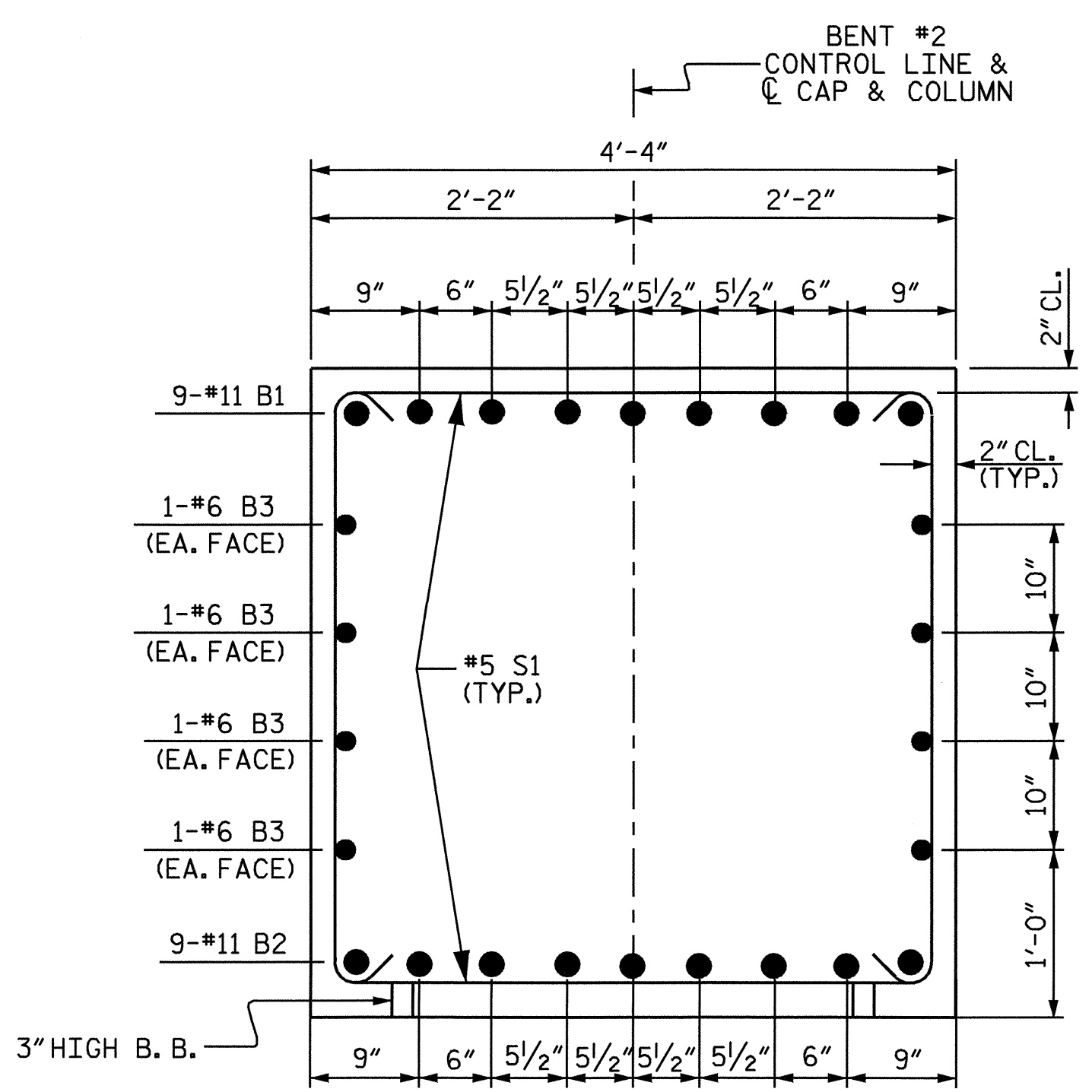
**PLAN OF COLUMNS AND DRILLED PIERS**

REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL COLUMNS AND DRILLED PIERS.

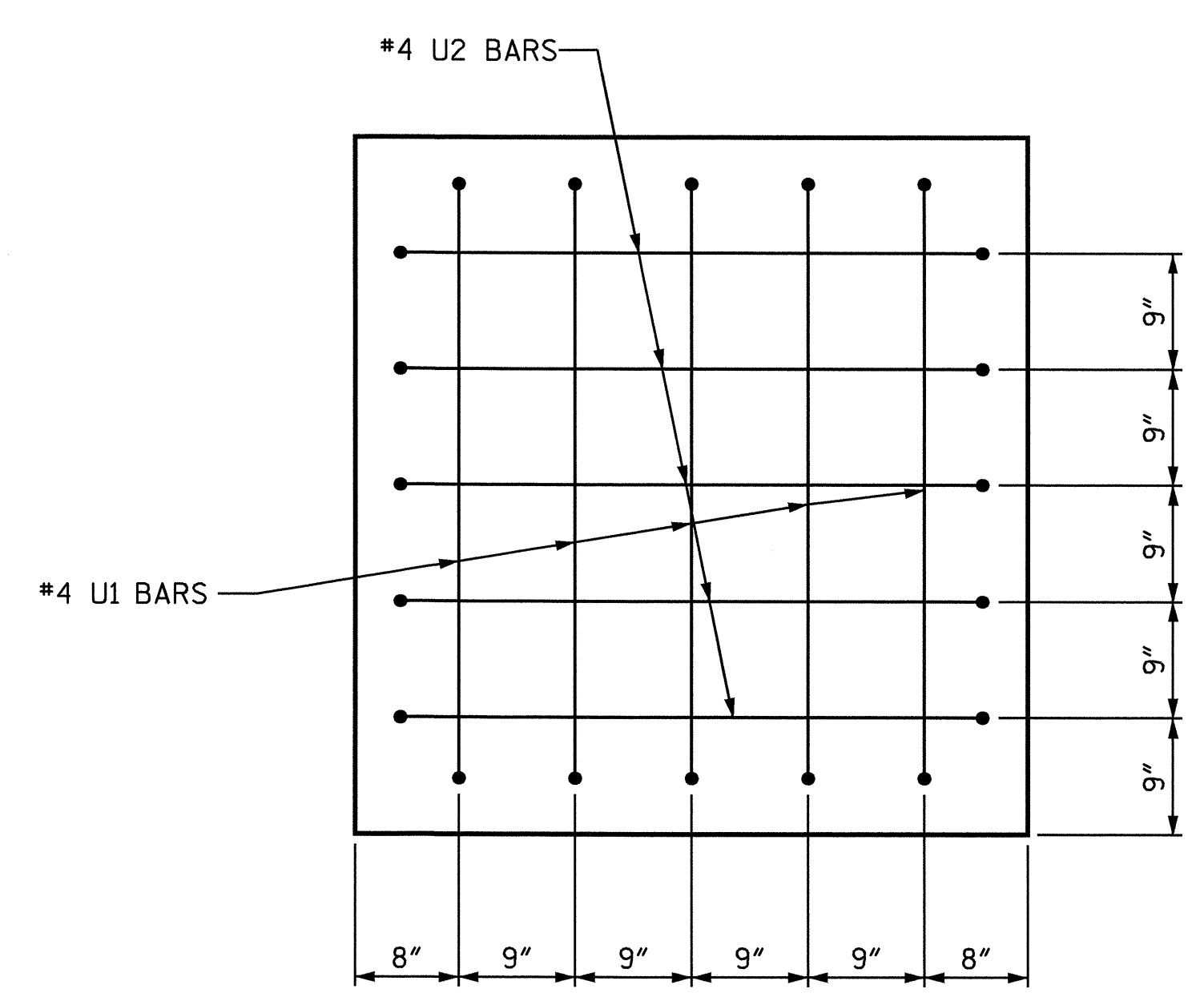
BAR TYPES						BILL OF MATERIAL					
						BENT #2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	9	11	1	44'-11"	2148	M1	20	11	STR	45'-11"	4879
B2	9	11	STR	41'-10"	2000	M2	20	11	STR	38'-5"	4082
B3	8	6	STR	41'-10"	503	S1	74	5	3	13'-2"	1016
						U1	46	4	5	7'-0"	215
						U2	10	4	5	6'-10"	46
						V1	40	11	2	11'-4"	2408
						REINFORCING STEEL 17280 LBS.					
						SP-1	2	**	5	324'-1"	432
						SP-2	1	**	6	852'-1"	889
						SP-3	1	**	6	675'-10"	705
						SPIRAL COLUMN REINFORCING STEEL 2026 LBS.					
						CLASS A CONCRETE BREAKDOWN					
						POUR 2 (COLUMNS)				5.4 C.Y.	
						POUR 3 (CAP)				31.5 C.Y.	
						TOTAL CLASS A CONCRETE				36.9 C.Y.	
						4'-0" Ø DRILLED PIERS					
						DRILLED PIER CONCRETE BREAKDOWN					
						POUR 1 (DRILLED PIERS)				30.1 C.Y.	
						4'-0" Ø DRILLED PIER IN SOIL :					
						LINEAR FEET				54.4 FT.	
						4'-0" Ø DRILLED PIER NOT IN SOIL :					
						LINEAR FEET				10.0 FT.	
						PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS:					
										16.0 FT.	
						CROSSHOLE SONIC LOGGING					
										1 EA.	
						CSL TUBES:					
										277.7 FT.	



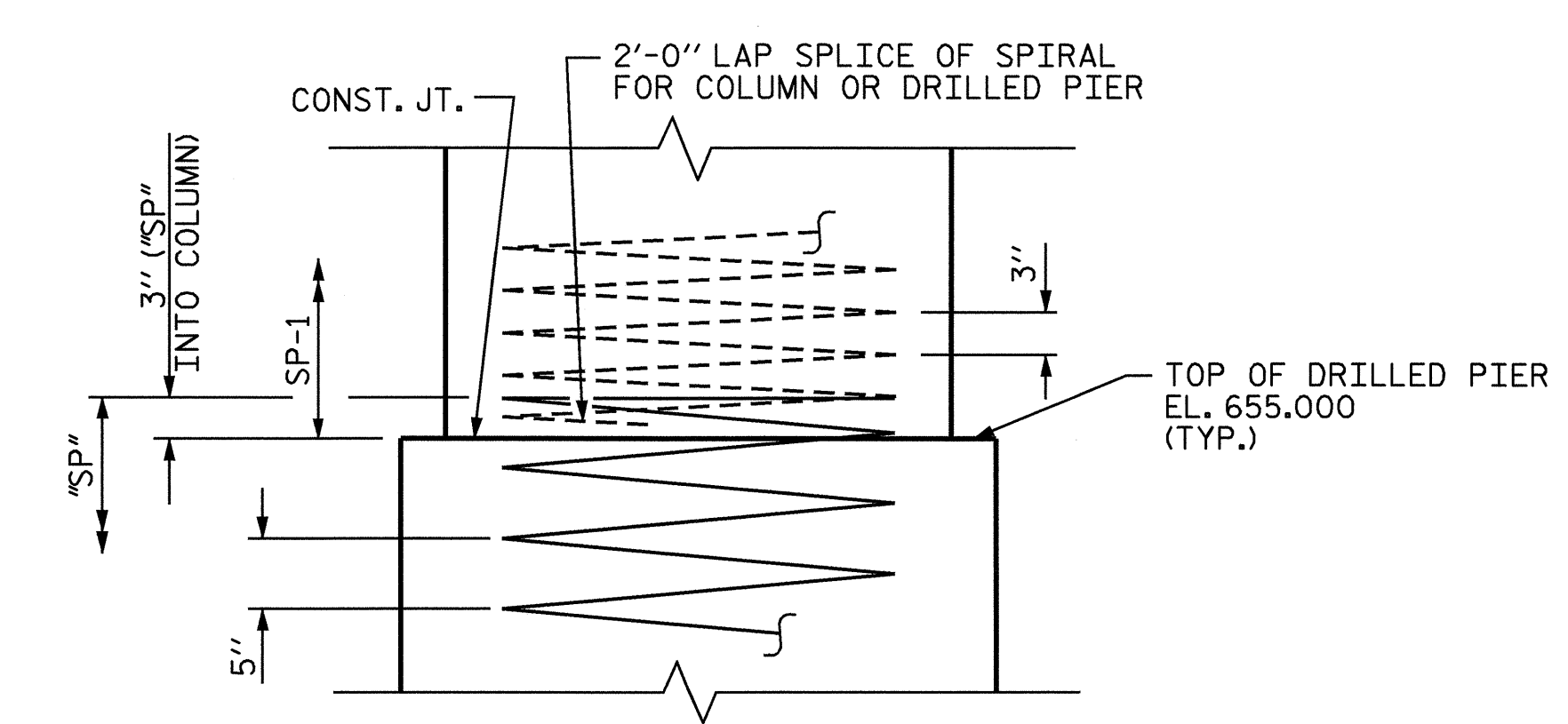
ALL BAR DIMENSIONS ARE OUT TO OUT.  
 \*\* THE SP-2 OR SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.  
 \* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.



**SECTION A-A**



**VIEW X-X**

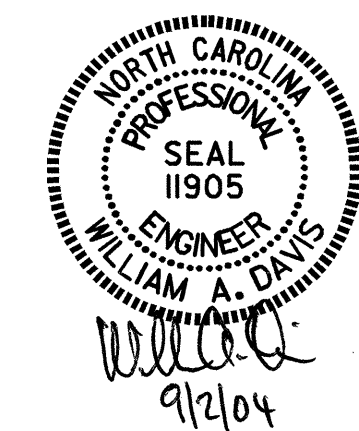


**CONSTRUCTION JOINT DETAIL**

PROJECT NO. B-4096  
DAVIDSON COUNTY  
 STATION: 20+38.40 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT #2					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS
					33



DRAWN BY: J.D.HAWK DATE: 4/26/04  
 CHECKED BY: N.M.RUFFIN DATE: 6/15/04